# Approved For Release 2001/09/03 CIA RPP78B04747A000300020023-2

CONTROL NO. \_

TCS-10311/71

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### TALENT-KEYHOLE

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#### WARNING

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11	January	1971
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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION

Chief, PPS/TSG

SUBJECT

RED Monthly Report (December 1970)

## Significant Items of Interest for December 1970:

1. Automatic Target Indexing Device - This equipment was delivered to NPIC in December and installed in Room 2N617. It is and T&E by mid-January. It will then be used in an operational test

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- 2. Image Comparison Microstereoscope The overrun funding to complete this equipment has been approved and work will shortly commence to finish it. Delivery is scheduled for April. After T&E, this device will be put through an extensive operational utility test program at NPIC by the
- 3. Engineering Audit of the Stereo Scanner This audit will be essentially completed in late December. personnel will present to RED a preliminary briefing on their results in early January.
- 4. Wide-Field, High-Power Anamorphic Stereoviewer This project is essentially on schedule. Complete optical design is nearly complete and optical components are under procurement by

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5. Utility of Stereo Scanning — The testing schedule (as originally planned) is being delayed primarily because of a delay over the use of the comparator when it arrives. A new testing schedule is being developed in conjunction with IEG and T&E personnel.

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7. Stereocomparator - The schedule has slipped due to problems of "debugging" the computer program. The acceptance tests at will now begin 25 January 1971 instead of 14 December 1970 as planned.

- 8. 1540 Light Table The first table passed preacceptance tests at during the first week of December. The first six tables arrived in the Center on 11 December; fifteen more arrived on 23 December. The tables are presently in EPB/ESD for check-out.
- 9. Briefings have been presented to Center management and the necessary paperwork forwarded for approval on the following items:
  - a. Calibration Device for the HPSC Phase II;
  - b. Modification of the RIPPS Dry Diazo to Dry Silver; and
  - c. Dry Color Development.
  - 10. Meetings, Briefings, etc.:

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- a. attended CCB meeting with regard to the Dry Silver Presentation on 15 December.
- b. On 16 December, Chief Scientist, visited the Center for codeword clearance briefings and contract consultation.

c. Six contractors visited NPIC on 17 December to inspect the 1540 light table in connection with an RFP for a High Intensity Tracking Light Source.

d. The C/RED, DC/RED, and C/SDB visited Operation for a presentation on the Precise Mensuration Study on 21 December.

e. A briefing on ATB/RED was held for \_\_\_\_\_\_ on 23 December. The briefing covered the overall laboratory facilities and programs. Demonstrations were given of the electron microscope, chemical image manipulation, and the Color Gamut Program. The Executive Director was

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briefed on the overall
A demonstration of optical image processing was given and the Tech/Ops Image Manipulation facility was described.

will be briefed on ATB experiments in January.

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- f. ATB personnel briefed Chief, IEG, and his Division Chiefs on the OSI, NPIC Stereo Acuity Research Program.
- g. ATB personnel briefed C/OD/IEG and C/PB/SS on the status of the OMS, NPIC Test Evaluation Program.
- h. ATB personnel briefed Offutt PI School personnel on the Target Recognition Training and Mensuration Training programs under NPIC's Imagery Interpretation Research contract. Offutt will evaluate these training packages for potential incorporation in the course curriculum at Omaha.
- personnel have initiated the first phase of a comprehensive evaluation of the NPIC Personnel Selection Test Battery. Attention is currently being directed at the relationship of sex and military background on test scores on the Army PI Test Battery. Preliminary results are expected within 60 days.

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ATB personnel have begun work on a Stereo Acuity Research Program. The Technical Services Branch, DIAAP-9, is providing a light table, microstereoscope, and subjects. IEG, a room and subjects; and a laser optometer and technical guidance. A pilot study employing ATB personnel is tentatively scheduled 5-8 January, and the formal testing program 11-29 January.

evaluation report on the 10" x 10" stereocomparator mockup was

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- 15. Vision Committee, National Research Council Support On
  16 December, ATB/HFS personnel and
  met with
  on Vision to discuss Council assistance to the Center in evaluating
  Color Training Program and in endorsing and distributing
  to the academic community
  Photo Interpretation Bibliography.
- 16. The Viscometer This instrument was received by the Exploratory Laboratory. It will be used for measuring the viscosity of experimental viscous developers formulated in the Lab.
- 17. Microdensitometry Support ATB/ITL provided IAS with 74 traces of three bar target groups and six traces of step wedges. These traces are in support of IAS's attempt to evaluate three diazo films and two printers.
- Modifications to the Micro-d have been completed and the new Zeiss objectives delivered. Color Gamut data has been delivered to and the color effective exposure work is proceeding. for completion.

19. Proposals and Reports Received/Evaluated:

a. A proposal for consultation work on chemical image manipulation was received from formerly of has been evaluated.

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- b. Unconventional Film Evaluations Completed and PAR being prepared.
- pnosphor screen materials were received. Evaluation is in progress.
- d. Color viewing and measuring standards, evaluation completed. PAR is being written.
- e. Study of the colorimetric and physical properties of Variable Contrast Illuminator. Being evaluated.

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21.

25X1D Stereo Acuity as a Function of Age and Experience as a Microscopist (OSI/LSD). Evaluation completed. In-house research phase to begin 5 January. Improvement in Small Image Mensuration (PAR 1885). Evaluation in process. A Proposal to Evaluate Four Image Manipulation Techniques for Photointerpretation 25X1A Evaluation completed; effort postponed pending further work in manipulation techniques. j. Color Support | Evaluation completed; 25X1A to submit revised proposal in smooth. Instrumented Microscope for 25X1A Evaluation completed; rejected for HF purposes as duplicative. 1. Unsolicited letter proposal for Enhancing Human Performance on Complex Perceptual Tasks 25X1A Evaluation in process. Development of Specifications for an Audio Clueing Information System 25X1A Being evaluated. 25X1A Contract Signed: A follow-on contract with has been approved. He met with ATB IEG/OD, and TSG/ESD personnel 25X1D on 23 December to develop a PI equipment training program. Lecture= presented the third set of lectures on geometrical optics and photometry 25X1A on 3-4 December. Members of RED, ESD, and APSD attended. 22. Report on 25X1D completed. Preliminary working copies were distributed within RED. Center-wide distribution awaits reproduction and will probably occur early in January 1971.

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23. Support to the Color Task Force continued on a sporadic basis. Only one meeting was held during the month.

24. Continued liaison on special project.

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25. Meetings were held with concerning NPIC Training Manual and other training considerations.

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26. Meetings were attended at concerning optical titling of film, as well as meetings at CIA Headquarters and SOC, Pentagon, on Post Flight Analysis Team and reports control manual for

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27. In-house meetings were conducted on data transmission and priorities, plus additional meetings concerning optical titling requirements. Attendants were representatives from PSG/AID, TSG/APSD, and TSG/RED.

28. The following persons visited RED/RSB for a variety of technical sessions:

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29. visited Patrick Air Force Base on projects.

and

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30. continued holding many sessions on completing plans and identifying operational and training problems associated with the exploitation

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31. RSB/RED reviewed an evaluation report that is to be forwarded to ORD.

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test flight No. 4 took place on 22 December. The test flight was not completely successful due to weather. No flights are planned for January, while two are presently scheduled for February. The first payload flight is now programmed for March.

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Deputy Chief,
Research & Engineering Division,
TSG/NPIC

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